

WITH SUNROOF IN VEHICLE

 **Labor Operations:** Click to hide the list of LOPs associated with this procedure

Primary LOP	Related LOP	Description	Skill Level	Skill Category
23103001	-	Sunshade, sunroof - Replace	1 - Semi Skilled	1C
23996601	-	Sunshade - Replace	0 - Low Skilled	11

Use this procedure when replacing the sunshade with a **NEW** service part.

REMOVAL AND INSTALLATION

Missing Plug-in 

NOTE: This procedure is only intended to replace a damaged sunshade, and it will not be reused.

If reusing the sunshade, see the procedure for Out Of Vehicle (Refer to 23 - Body/Sunroof/SUNSHADE,

Sunroof/Removal and Installation) .

NOTE:

Use clean gloves or make sure your hands are clean before installing a NEW sunshade.

REMOVAL

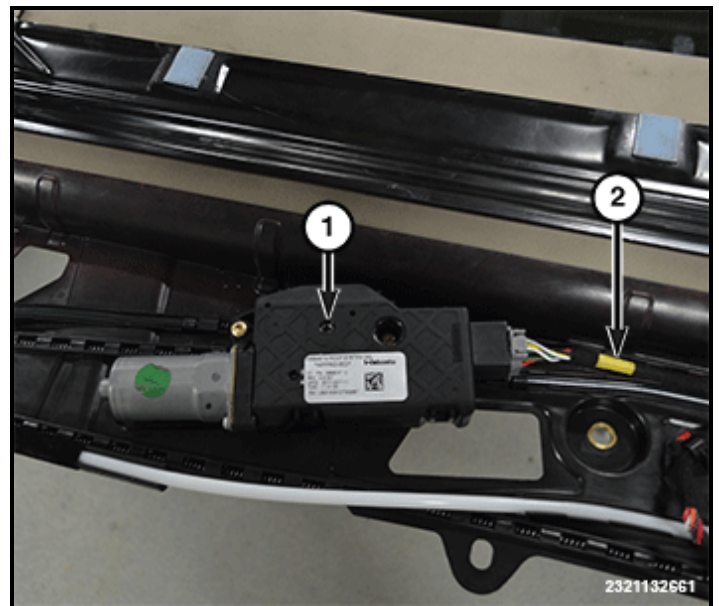
1. Review the removal and installation video for greater detail.
2. Remove the rear seats (Refer to 23 - Body/Seats/SEAT/Removal and Installation) .
3. Perform the necessary steps to lower the headliner (1) in the vehicle (Refer to 23 - Body/Interior/HEADLINER/Removal and Installation) .



4. Insert a 4 mm hex tool into the screw (1) and rotate the motor as necessary to move the sunshade about 100 mm (4 inch) forward from the full rear position.

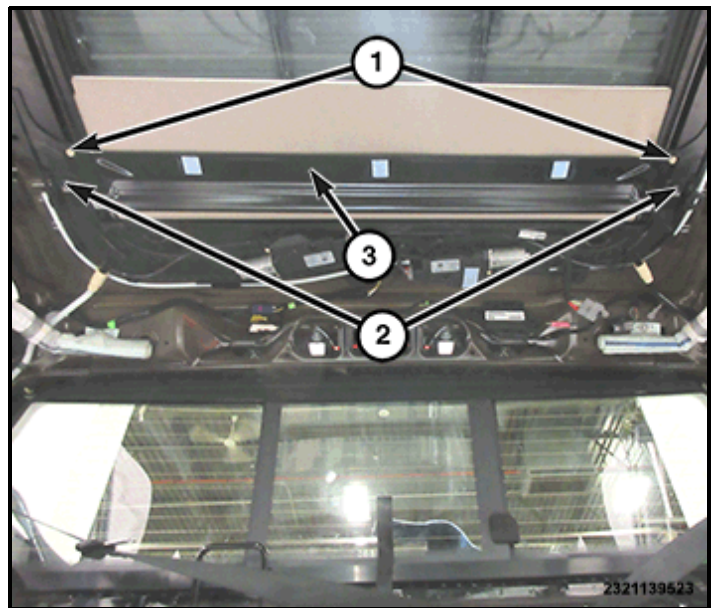
NOTE:

As a reference, the wire harness with the yellow tape (2) is connected to the sunshade motor located on the passenger side of the sunroof assembly.



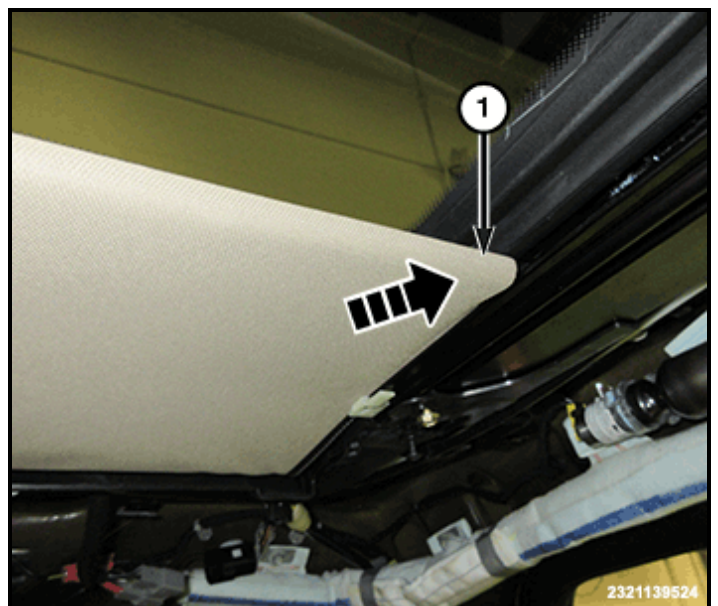
5. Remove the two bolts (1) and the two screws (2), and remove the cross brace (3).

NOTE: Take note of the bolts and screws location, they are different sizes.



6. Using firm pressure, pull **forward** on the tension bar (1) till you hear an audible click, see that it is unclipped from the guide bracket and the tension bar feels released.

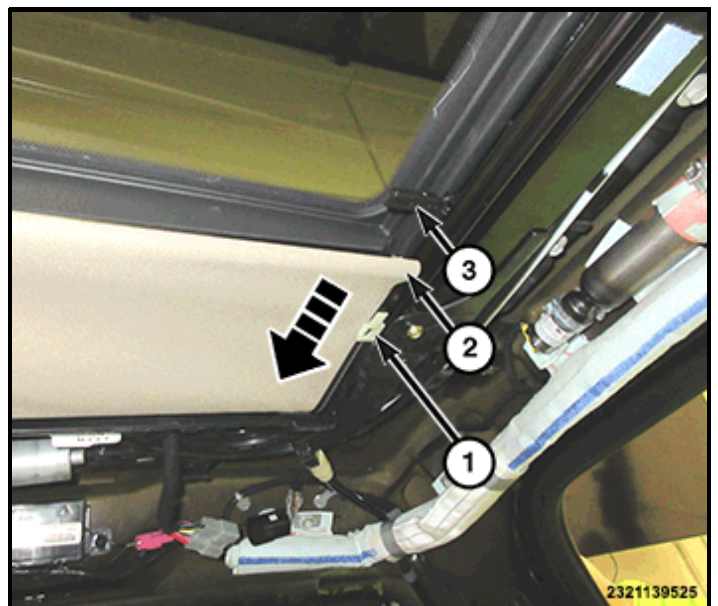
7. Repeat on each side.



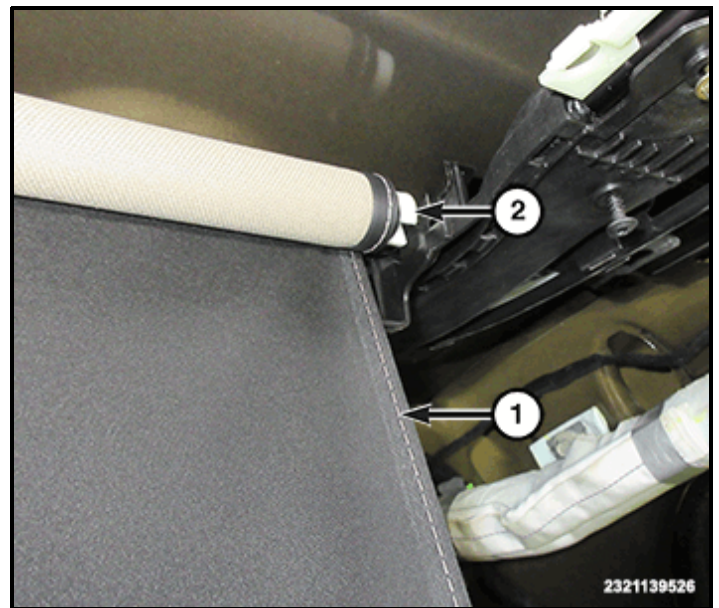
8. Roll the tension bar (2) off the guide brackets (3) at each end.

NOTE: The sunshade is under spring tension, hold it firmly.

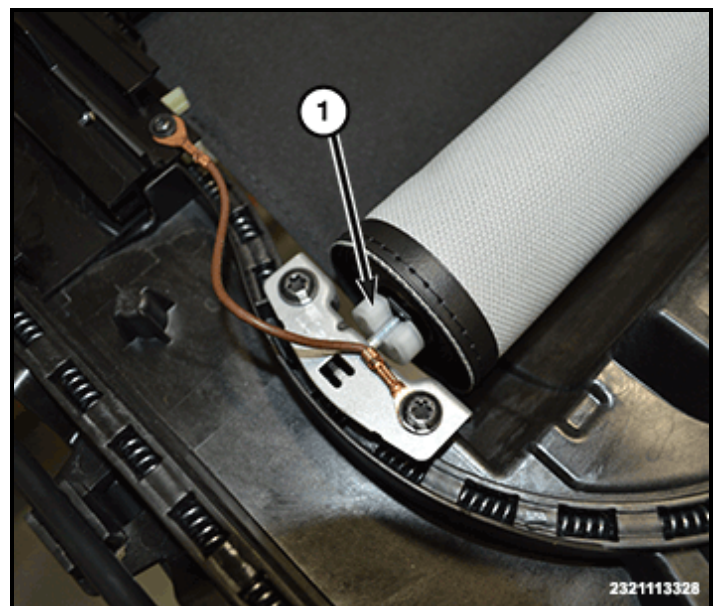
9. Push the sunshade fabric rearward and out of the guides (1) completely.



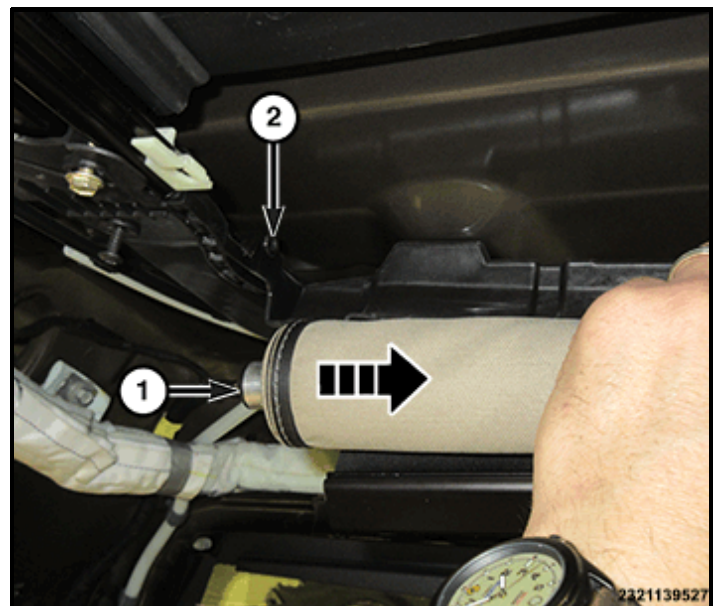
10. Pull the sunshade (1) out far enough to access the spacer (2). Remove the spacer by hand.



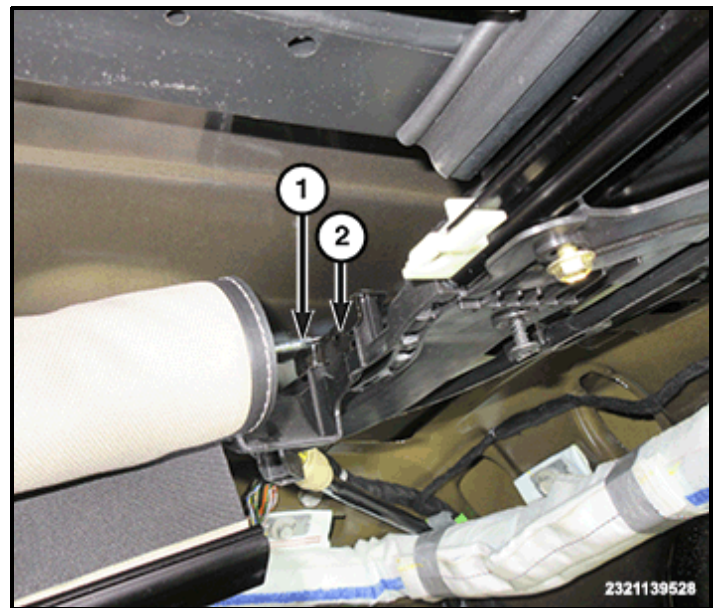
11. This graphics shows the spacer (1) from the top-side, push on the spacer till it snaps-off the sunshade shaft.



12. Grasp the sunshade on the right side of the vehicle and slide it to the left, then remove the end (1) from the pivot bracket (2).



13. Removed the sunshade (1) from the end bracket (2).

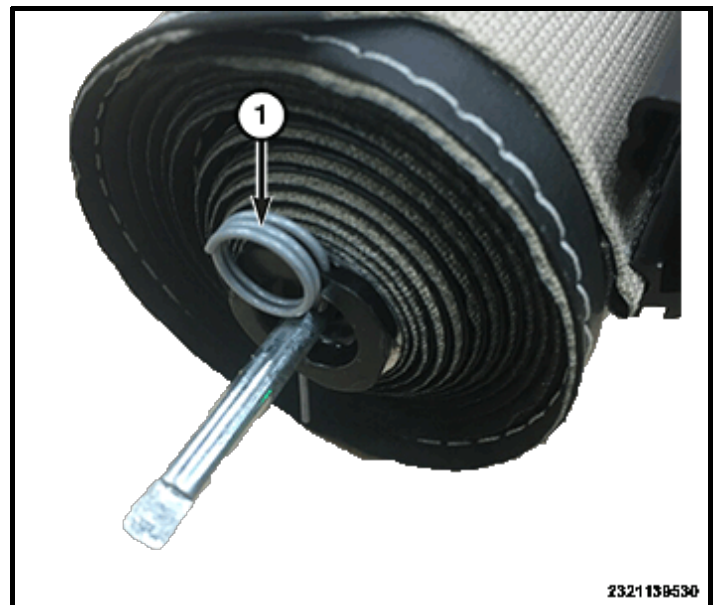


INSTALLATION

1. Review the removal and installation video for greater detail.
2. Verify that a locking pin (1) is in the **NEW** sunshade, the fabric should be wound tightly.

NOTE:

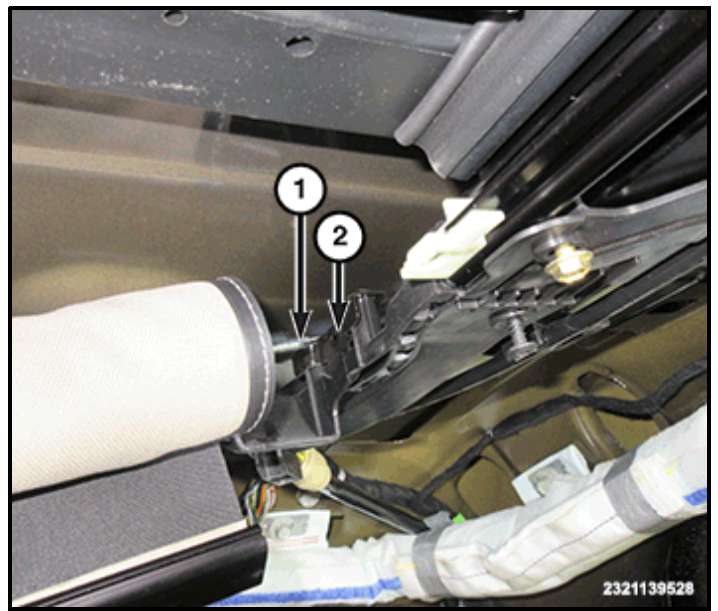
If the locking pin is missing and the sunshade spring is not properly locked, the sunshade spring will completely unwind and will need to be re-wound prior to installation (Refer to 23 - Body/Sunroof/SUNSHADE, Sunroof/Standard Procedure) .



3. Install the steel shaft end (1) into the end bracket (2).

NOTE:

The steel shaft is flattened at the end and will need to be located properly into the end bracket.

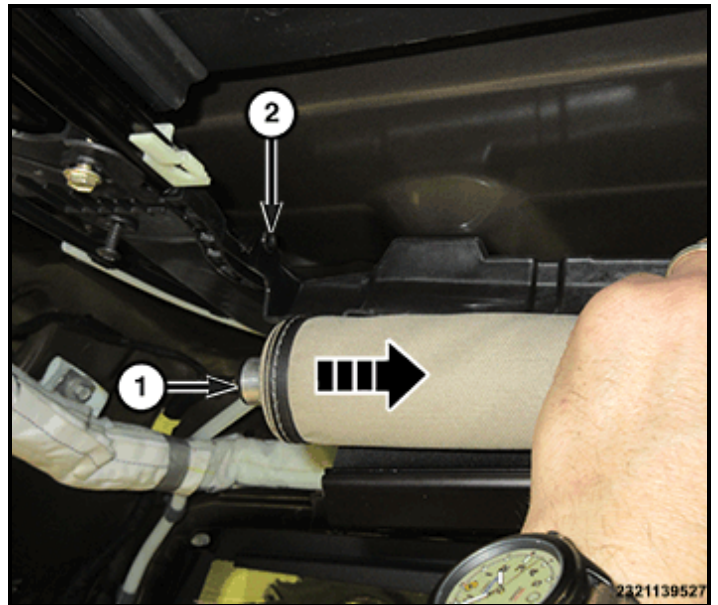


4. Hold the sunshade firmly and pull the locking pin from the steel shaft.

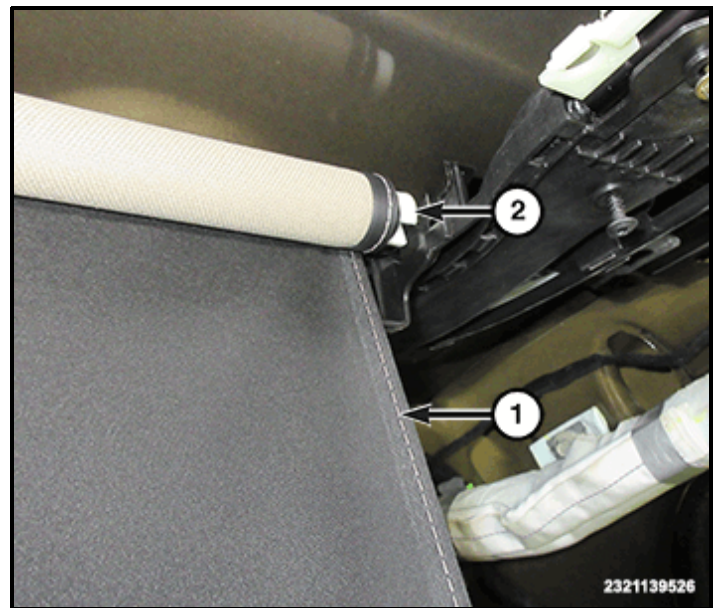
5. Grasp the sunshade on the right side of the vehicle and slide it to the left, then install the end (1) into the pivot bracket (2).

NOTE:

The sunshade spring will be released when the sunshade is pushed to the left, and spring tension will be noticed.



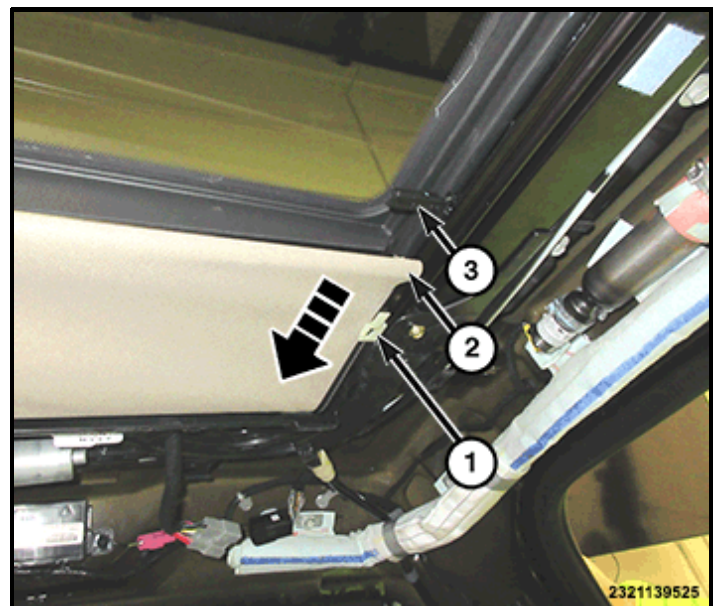
6. Pull the sunshade (1) out far enough to install the spacer (2) by hand.



7. Align the tension bar end (1) with the sunshade fabric.



8. With the help of an assistant, carefully install the sunshade ends through the guide (1) on each side of the sunshade.
9. Roll the sunshade tension bar (2) onto the guide brackets (3), then push rearward to snap into place. An audible snap will be heard.



10. Position the cross brace (2) and install the two bolts (1) and the two screws (2).
11. Perform the necessary steps to install the headliner (Refer to 23 - Body/Interior/HEADLINER/Removal and Installation) .
12. Install the rear seats (Refer to 23 - Body/Seats/SEAT/Removal and Installation) .
13. Perform the sunroof initialization and obstacle detection calibration (Refer to 08 - Electrical/Power Top/MOTOR, Sunroof/Standard Procedure) .

